1: Nimuendajú E-5 (1929-1936) 1946 SO8 Timbira SO8

not crave these larvae so passionately as many Guaraní, let alone Kaingang, who fill thick bamboo tubes with them. I have never seen Timbira eating grasshoppers, ants, or any other insects besides those mentioned above.

Weapons.—The principal Timbira weapon is the bow, kuhẽ' (pl. 15, *b*) nowadays receding with the spread of muzzle-loaders, but still predominantly used even by the Rąmkõ'kamekra, who own probably more firearms than the other steppe Timbira. The bow is of pau d'arco (*Tecoma* sp.), more rarely of piquiá (*Caryocar* sp.), or pau rôxo wood. Its size diminishes with its importance in warfare and hunting. Among the Western Gaviões, who lack guns and still guard their woods with the bow, it attains the enormous length of 254 cm.; the private collection of Estevão de Oliveira contains a specimen. These bows thus rank third for length among the South American types known to me, being surpassed only by the equivalents from the Bakairí of the Xingú headwaters and from the Kaingang of São Paulo. The "Bugre" (Botocudo of Sta. Catharina) bows pronounced as the longest by Krickeberg[36] are thus far inferior, being only 230 cm. long; and so far as my experience goes those of the Sirionó of lower Bolivia, to which some assign the first place, never exceed 216 cm. The maximum measurements among the Eastern Gaviões (Pųkóbye), Krîkatí, Krahõ', and Rąmkõ'kamekra) are, respectively: 192, 191, 188, 183 cm.[36]

Common as is a round cross section among the Krahõ', it is limited to the toy bows of little boys among the Rąmkõ'kamekra, and these may also be elliptical. Otherwise the Timbira—the Kre'pų'mkateye less than the rest—uniformly flatten the string side; a ceremonial Rąmkõ'kamekra specimen has approximately oval cross section.

The tip of the Rąmkõ'kamekra bow, around which they wind the taut end of the string, generally, though not always, has for its support a pad of cordage (pl. 15, *c*). Among the other tribes the tip is slightly set off on the outside. To produce tension they loosen the corded loop from the other end, shorten the string by vigorous twisting, bend the bow with the knee, and push the end again over the rather blunt tip. The bowstring, kuhẽčẽ, is of tucum fiber; I have not seen the cotton form ascribed by Snethlage to "the northern tribes."

The hunting arrows of the Timbira are of camayuva cane (*Guadua* sp.) and generally as long as the bow or but slightly shorter (pl. 16, *f*). Solely the Western Gaviões, who require arrows corresponding in length to their gigantic bows, use only canna brava (*Gynerium saccharoides*), obviously because the thickness of the camayuva cane is not proportionate to the requisite length. This tribe tips arrows with huge, two-edged, unserrated bamboo points up to 35 cm. long and 4 cm. wide, which are glued and tied to a wooden foreshaft. Others have a dentate wooden point. Among the other Eastern Timbira I was too late to see arrows with bamboo knives, which are presumably above all for use in warfare. The typical arrow of the Eastern Timbira (like the Apínayé and Šerénte form) altogether lacks a specially mounted point, the end of the camayuva shaft being itself shaped into a point by unilateral beveling. This is the customary hunting arrow of all steppe Timbira, not (as Snethlage states) a mere weapon for practice. The Krîkatí, Pųkóbye, Kre'pų'mkateye, and Rąmkõ'kamekra have arrows with an inserted wooden foreshaft supporting a flat bone tip, which is put on so that there is a laterally projecting blunt barb (pl. 16, *g*). The last-named people more frequently substitute for the bone point one of iron wire (pl. 16, *h*) or a little barblike rod of hard wood.

[36] In Buschan, Illustrierte Völkerkunde, 233, 234.

[36] Wied-Neuwied, Reise, v. 2, 23, found a "Patschos" bow "3 Fuss 9½ Zoll englisch." *Editor.*

1: Nimuendajú E-5 (1929-1936) 1946 SOS Timbira SOS

I noted arrows headed with hollow bones (hõ'kóp) and with flat iron points (krowakõwakį') among the Kre'pų'mkateye and Pųkóbye; the former type occasionally turns up also among the Rąmkõ'kamekra.

In addition to the foregoing, all steppe Timbira have arrows with smooth wooden heads, as well as with a cross of two pairs of little sticks tied on so that the point projects only a little. The latter type, which serves for hunting birds, is borrowed from the Guajajára, as witnessed by the native term, prįyĩkakót (Guajajára bird-arrow). The bird-arrows of half-grown boys are topped either with a ball of burity bast fiber (pl. 16, *e*) or a segment of a kerneled corncob; or the point may consist of the thickened knoblike root end of the arrowshaft itself (pl. 16, *d*).

All Timbira arrows have tangential bridge feathering (pl. 16, *j*). The feathers are tied with cotton string, while the place for inserting the wooden foreshaft of the arrow is mostly wrapped with black guambé (*Philodendron* sp.) bark. From an old Indian of the Čą'kamekra tribe now merged in the Rąmkõ'kamekra population. I obtained arrows with gynerium shaft and radial sewed feathering (pl. 16, *k*). His neat and competent execution proved thorough familiarity with the rather difficult technique, not a mere attempt at imitation. According to his statements the Čą'kamekra used both bridge and sewed feathering, the latter having been borrowed from the Gamella of Codó, who were destroyed in 1856. Both techniques are also traditionally ascribed to the Gamella of Vianna.[220]

Sewed feathering has for its criterion *attachment of the feathers with threads traversing the shaft by means of several transverse perforations* specially made for the purpose. It occurs in two discrete areas—in the central Matto Grosso and on both sides of the lower Tocantina. Most of the instances given by Schmidt,[221] on the other hand, do not properly fall under this head for lack of any perforation of the shaft.

Our first area, defined by Nordenskiöld,[222] embraces the Bororo, Bakairí (Carib), Ysulapití (Arawak), Trumaí (isolated), Huanyam (Čapakúra), the Tupí stock being represented by the Auetõ', Kamayurá and Kayabí. The existence of a second center was first established by Raymundo Lopes on the basis of literary sources. I am, however, in a position considerably to augment the list of these northern groups, which at present may be summarized as follows: 1, Urubú (Tupí); 2, Amanayé = Ararandeuára (Tupí); 3, Guajajára (rare—Tupí); 4, Parakaná (Tupí); 5, Asuriní (Tupí ?); 6, Arára (Carib); 7, Parirí (Carib); 8, Čą'kamekra (Gê); 9, Gamella of Codó (?); 10, Gamella of Vianna (isolated).

I cannot get rid of the impression that the people who spread this technique were of Tupí stock, though not of the Se branch of this family (Guaraní, Tupinambá). Of the eight Matto Grosso tribes, also, three are Tupí.

The end of the arrow is held with the right thumb and index finger, while the string is pulled with the index, middle and ring fingers. The shaft rests below the extended index finger of the left hand, which holds the bow. The arrow is fitted to the string in horizontal position; in letting it fly the archer holds his bow in approximately vertical position. He aims in a straight line, making his shots random only when compelled by the greatness of the distance. Really indirect shots do not occur; I am unable to confirm Snethlage's relevant statement.[223] Given a suitable angle, a Timbira arrow flies about seventy meters, but some measure of certainty goes only with about half that distance.

[220] Nimuendajú, The Gamella Indians, 12.
[221] Schmidt, Kulturkreise und Kulturschichten, 1035 f.
[222] Nordenskiöld, Ethnography, 3:45, also map 4.
[223] Snethlage, Nordostbras. Ind., 158.

1: Nimuendajú E-5 (1929-1936) 1946 SOS Timbira SOS

526 The ordinary logs are called krowa, burity palm (*Mauritia flexuosa*), being
322 formed from a cylindrical section of one of these trees. About 1 m. long and 40-50
824 cm. in thickness, these logs may be estimated to weigh 100 kg., but are actually somewhat lighter. To afford a better grip the makers set off a shallow hollow from the margins of the terminal planes. (See pl. 29, *b*.) Among the Krîkatí I saw gigantic logs, but they had been bilaterally hollowed out, leaving a transverse partition 5 cm. in thickness. Invariably a man of mature years tests the completed logs at the site of manufacture, ordering those he judges too heavy to be lopped off and over-light ones to be deposited in the water.

Logs made out of the heartwood of other trees are called pąra. The pę'rakahą'k made at the beginning of the pepyé initiation—with gripe projecting from the terminal planes in the direction of the longitudinal axis—represent a special variety. I observed similar specimens among the Kre'pų'mkateye. Distinct from these are the pąrakačą're used on the first and second days of the closing ceremony of the ketúaye festival. Their weight is negligible; on the other hand, the hąmkrán typical of the opening of the vų'tę' season are the heaviest I have ever seen.

526 For the more solemn log races the Rąmkõ'kamekra adorn themselves with girdle
292 pendants far less impressive than those of the Apinayé; they likewise put on forehead bands, neck bands, sashes, and burity-fiber girdles. The pendants and the girdles have long posterior tail-like appendages. At a major race at the close of the ketúaye the participants had tied together their long occipital hair with a grass fan of the type referred to on page 48 (see pl. 20, *b*).

526 The Rąmkõ'kamekra paint themselves black for a log race. During it they use
302 as instruments only trumpets and their little calabash ocarinas. Like the Apinayé
534 they wrap their wrists with plaited cotton cords terminating in tassels (pl. 11, *c*, *d*);
[271] this is to afford protection from chafing against the edge of the log. It is the young girls' duty at major races to provide themselves with gourd bottles filled with water and, keeping pace with the runners, to slake their thirst.

526 The teams alternate in issuing a challenge. Either at an evening or a morning session a councilor once and for all delegated for this duty loudly calls the team whose turn has come, "aikõ'! aikõ'! ape kę'ikateyę (or whatever may be the team in question) kanąm meká iykre kačúa to ike'ké!" Those summoned reply in chorus, "hã'o!"

At a suitable distance from the village, in a *galeria* forest with burity palms, the challengers prepare the two logs and, when done, drag them to one of the race tracks if feasible, but as a rule only as far as one of the bypaths that ultimately lead to the track. A space about 6 m. square is cleared, and there the logs are laid down at a distance of about 1½ m. from each other, resting on leaves so as not to be soiled. They are always put down with the axis in the direction of the course. The above-mentioned hąmkrán are painted red by two erstwhile girl associates of the pepyé. (See pl. 29, *a*.)

526 The ceremony of the čų'kate with the hąmkrán logs resting on the ground has
554 been described. The office of these four čų'kate is attached to the names Vakái, Pąrkré, Pędnhí and Mĩkrõ', with which it is passed on by inheritance. Their badge consists of a girdle plaited of cotton; it is of the width of two fingers. Hanging from it is a pendant (čų) of rattling objects, properly tapir hoofs; but since nowadays the tapir is extinct within the tribal domain, the tips of little bottle gourds, deer hoofs, and ostrich beaks serve as substitutes. From this girdle the čų'kate derive their name, and formerly all four of them wore these emblems in their official capacity; but at present only one of them owns one.

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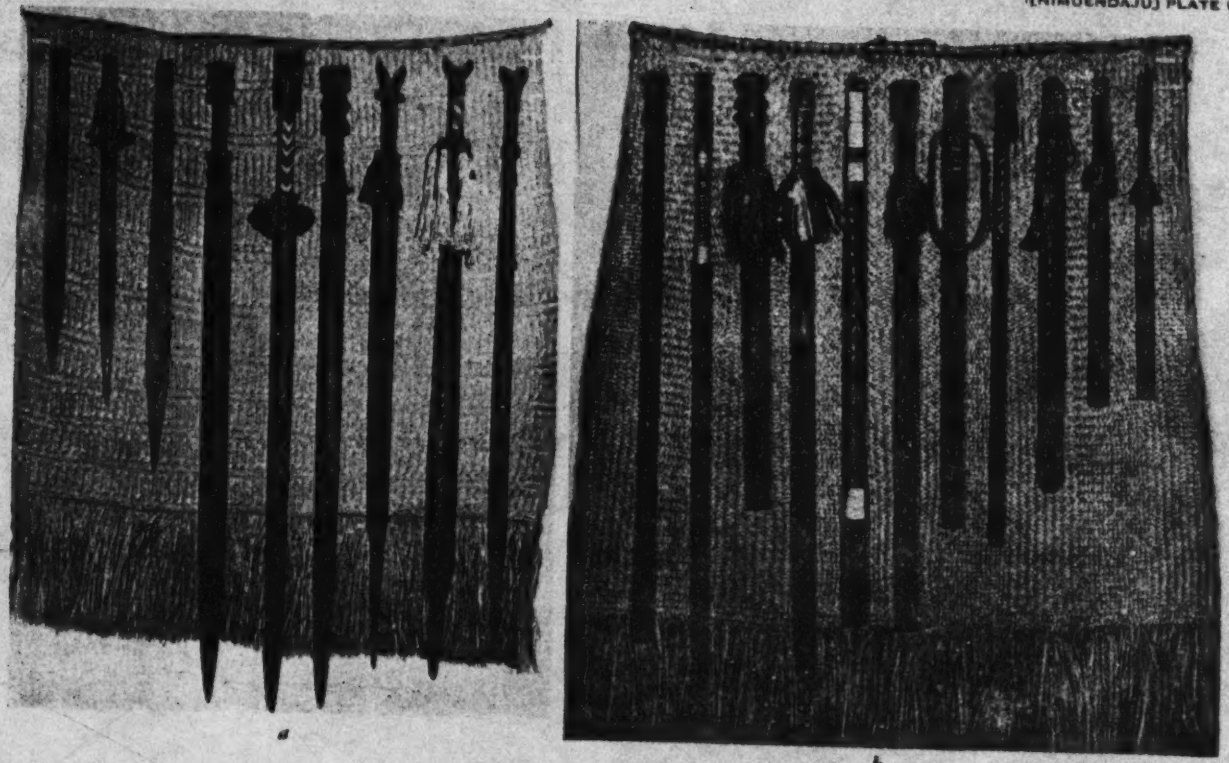

a b

BURITY MATS AND CLUBS

[276]

In Nimuendajú E-6 (1929-1936) 1946 SOS Timbira SOS